

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

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In the Matter of:

THE APPLICATION OF GREEN RIVER VALLEY)
WATER DISTRICT, HART, BARREN, LARUE,)
GREEN AND METCALFE COUNTIES, KENTUCKY)
(1) FOR A CERTIFICATE OF PUBLIC CON-)
VENIENCE AND NECESSITY AUTHORIZING)
SAID DISTRICT TO CONSTRUCT MAJOR)
IMPROVEMENTS AND ADDITIONS TO ITS) CASE NO. 8955
EXISTING MUNICIPAL WATERWORKS AND)
CHAPTER 74 OF THE KENTUCKY REVISED)
STATUTES; AND (2) SEEKING APPROVAL OF)
THE ISSUANCE OF CERTAIN SECURITIES)

O R D E R

IT IS ORDERED that Green River Valley Water District ("Green River") shall file an original and 3 copies of the following information with the Commission with a copy to all parties of record by February 10, 1984. Green River shall also furnish with each response the name of the witness who will be available at the public hearing for responding to questions concerning each area of information requested. If neither the requested information nor a motion for an extension of time is filed by the stated date, the case may be dismissed.

(1) Provide a narrative description of proposed extensions and a tabulation of each proposed extension, its length, and the number of customers it is expected to serve.

(2) Provide hydraulic analyses, supported by computations and actual field measurements, of typical operational sequences of

the existing water distribution system. Computations are to be documented by a schematic map of the system that shows pipeline sizes, lengths, connections, pumps, water storage tanks, and sea level elevations of key points, as well as allocations of actual customer demands. Flows used in the analyses shall be identified as to whether they are based on average instantaneous flows, peak instantaneous flows, or any combination or variation thereof. The flows used in the analyses shall be documented by actual field measurements and customer use records. Justify fully any assumptions used in the analyses.

(3) Provide a summary of any operational deficiencies of the existing water system that are indicated by the hydraulic analyses or that are known from experience.

(4) Provide hydraulic analyses, supported by computations and field measurements, demonstrating the appropriateness of the engineering design of the proposed construction of additions and extensions. Justify fully any assumptions used in the analyses.

(5) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available at Green River's 500,000-gallon tank in the vicinity of Magnolia. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(6) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available at Green River's water main in the vicinity of the intersection of Highways 31-E and 1141 at Bear Wallow. Identify the 24-hour period recorded,

the exact location of the pressure recorder and the sea level elevation of the recorder.

(7) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available at the discharge of Green River's water treatment plant on Highway 31-E. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder. Provide a copy of the pump manufacturers characteristic (head/capacity) curve for each of the existing discharge pumps.

(8) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available at Green River's 25,000-gallon water tank located in the vicinity of Monroe. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(9) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available at Green River's 25,000-gallon water tank located in the vicinity of Griderville. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(10) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available at the end of the existing 4-inch water line on Highway 677 in Hart County. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(11) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available at the end of the existing 4-inch water line on Highway 740 at Park. Identify the

24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(12) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available at the end of the existing 4-inch water line on Highway 1243 at Seymour. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(13) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available at Green River's water main in the vicinity of the intersection of Highways 70 and 740 at Hiseville. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(14) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available at Green River's 10-inch water main in the vicinity of the intersection of Highways 31-E and 571 at Uno. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(15) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on the existing 10-inch water line on Highway 31-E at Bunnell Crossing. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(16) Provide the rated capacity of the District's water treatment plant. Provide a tabulation of the daily water

production of the plant for each day of the most recent 3 month period. Provide a tabulation of the number of hours that the plant was operated each day of the most recent 3 month period.

(17) Provide a list of each of Green River's water storage tanks. Give the location, capacity, and overflow elevation of each tank. Explain how water is supplied to each tank.

(18) Provide a list of each of Green River's pump stations. Give the location, number of pumps and their rated capacities, and the purpose of each pump station. Explain how the operation of each pump station is controlled. Provide a copy of the pump manufacturer's characteristic (head/capacity) curve for each of Green River's pumps. Identify each curve as to the particular pump and pump station to which it applies.

Done at Frankfort, Kentucky, this 11th day of January, 1984.

PUBLIC SERVICE COMMISSION


For the Commission

ATTEST:

Secretary